

**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*

<u>L9</u>	11 and 15 and 16	9	<u>L9</u>
<u>L8</u>	11 and 14 and 15	83	<u>L8</u>
<u>L7</u>	14 and 15 and 16	18	<u>L7</u>
<u>L6</u>	wood pulp same rayon same cotton same cellulose	647	<u>L6</u>
<u>L5</u>	water same absorbing same polymer same particles	744	<u>L5</u>
<u>L4</u>	fibres or fibers	352134	<u>L4</u>
<u>L3</u>	s fibers or fibres	352134	<u>L3</u>
<u>L2</u>	s water same absorbing same polymer same particles	0	<u>L2</u>
<u>L1</u>	water same absorbing same composite	542	<u>L1</u>

END OF SEARCH HISTORY

0 CEPANIDE  
0 POLYVINYLIDENE CEPANIDE  
(POLYVINYLIDENE(W)CEPANIDE)  
L7 807169 POLYESTER OR POLYETHYLENE OR POLYPROPYLENE OR POLYSTYRENE OR  
POLYAMIDE OR POLYVINYL ALCOHOL OR POLYVINYL CHLORIDE OR POLYUREA  
OR POLYMETHANE OR POLYFLUOROETHYLENE OR POLYACRYLONITRILE OR  
POLYVINYLIDENE CHLORIDE OR POLYVINYLIDENE CEPANIDE

=> d his

(FILE 'HOME' ENTERED AT 13:40:51 ON 19 SEP 2002)

FILE 'CAPLUS' ENTERED AT 13:41:26 ON 19 SEP 2002

L1 39 S WATER ABSORBING COMPOSITE  
L2 272 S WATER (L)ABSORBING (L) COMPOSITE  
L3 42 S WATER ABSORBING POLYMER PARTICLES  
L4 299 S WATER (L)ABSORBING (L)POLYMER (L) PARTICLES  
L5 1758 S FIBROUS (L)SUBSTRATE  
L6 447441 S FIBERS OR FIBRES  
L7 807169 S POLYESTER OR POLYETHYLENE OR POLYPROPYLENE OR POLYSTYRENE OR

=> s wood pulp or rayon or cotton or cellulose

122719 WOOD  
7479 WOODS  
126446 WOOD  
(WOOD OR WOODS)  
107599 PULP  
16830 PULPS  
110292 PULP  
(PULP OR PULPS)  
7532 WOOD PULP  
(WOOD(W) PULP)  
31284 RAYON  
1137 RAYONS  
31786 RAYON  
(RAYON OR RAYONS)  
99582 COTTON  
1124 COTTONS  
99695 COTTON  
(COTTON OR COTTONS)  
294155 CELLULOSE  
3854 CELLULOSES  
294734 CELLULOSE  
(CELLULOSE OR CELLULOSES)  
L8 396192 WOOD PULP OR RAYON OR COTTON OR CELLULOSE

=> d his

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FILE 'CAPLUS' ENTERED AT 13:41:26 ON 19 SEP 2002

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=> s 12 and 14 and 16 and 17

L9 4 L2 AND L4 AND L6 AND L7

=> s 12 and 14 and 16 and 17 and 18

L10 2 L2 AND L4 AND L6 AND L7 AND L8

=> d 19 1-4 bib,abs

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 2001:569497 CAPLUS

DN 135:157720

TI Biodegradable highly water-absorbable composites containing cellulose-coated crosslinked poly(amino acids), their manufacture, and their use for sanitary products

IN Irizato, Yoshihiro; Higuchi, Chojiro; Ishitoku, Takeshi; Suzuki, Osamu

PA Mitsui Chemicals Inc., Japan; Nippon Kyushutai Gijutsu Kenkyusho K. K.

SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2001212899	A2	20010807	JP 2000-24305	20000201
AB	Title <b>composites</b> , which are degraded in compost or soil, comprise (A) a <b>water-absorbing</b> layer contg. crosslinked poly(amino acid) <b>particles</b> (partially) coated with microfibrillated cellulose, and (B) a biodegradable support. The <b>composites</b> are useful for disposable diapers, sanitary napkins, etc. Thus, a dispersion contg. S-MFC (microfibrillated cellulose), lysine-crosslinked poly(aspartic acid), H <sub>2</sub> O, and MeOH was cast on a running substrate composed of rayon and poly(lactic acid) spun-bond web, roll pressed, and dried to give a <b>composite</b> , which retained 40.2 g <b>water</b> /(1 g of the crosslinked <b>polymer</b> ) and decompn. rate 95% in compost.				

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1997:618505 CAPLUS

DN 127:294390

TI **Water-absorbing** polymer **composites** and their manufacture

IN Tsuchiya, Hiroyoshi; Ito, Kiichi; Yamashita, Masayuki

PA Mitsubishi Chemical Industries Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09239912	A2	19970916	JP 1996-84753	19960313
AB	Title <b>composites</b> , useful as sanitary or agricultural materials, comprise <b>water-absorbing polymer</b> particle aggregates fixed on or in <b>fibers</b> and are manufd. by setting <b>water-sol. polymer particles</b> , which are impregnated with <b>water-sol. ethylenically unsatd. monomers</b> , on or in <b>fibers</b> and polyimg. the monomers. Thus, a part of an aq. monomer soln. contg. partially neutralized acrylic acid, N,N-methylenebisacrylamide, and K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> was added to cyclohexane-sorbitan monostearate mixt., heated at 55-77.degree., mixed with another part of the monomer soln., coated on <b>polyester</b> nonwoven fabric, and heated at 100.degree. for 60 min to give a <b>composite</b> contg. 200 g <b>polymer</b> /m <sup>2</sup> . The <b>composite</b> showed physiol. saline- <b>absorbing</b> capacity 35 g/g, the saline absorption rate 25 g/g/5 min, and crumple resistance.				

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1997:302906 CAPLUS

DN 126:278275  
 TI **Water-absorbing composite** material and its  
 manufacture  
 IN Tsucha, Hiroyoshi; Yamashita, Masayuki; Ito, Kiichi  
 PA Mitsubishi Chem Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09067403	A2	19970311	JP 1996-136386	19960530
PRAI	JP 1995-151509		19950619		

AB The title **composite** comprises a fibrous base material and **water-absorbing polymer particles** supported by the fibrous material and have properties (1) free vol. 50-99.5%, (2) primary particle size 50-1000 .mu.m, (3) the amt. of **polymer particles** on the support 10-500 g/m2, and (4) supporting ratio (A) >60% after a 60 mm .times. 300 m sheet is satd. with physiol. brine and pressed 5 times with a iron roller of 105 mm diam., breadth 60 mm, and wt. 4 kg on a stone table, where A = [(W0-w)/W0] .times. 100 (W0 is the wt. of **particles** before **absorbing** brine and w is the dry wt. of **polymer particles** come off the support after **absorbing** brine). Nonwoven **polypropylene/polyethylene** was used as base material and N,N'-methylenebisacrylamide-crosslinked acrylic acid **polymer** prepd. by redox polymn. was used as **water-absorbing particles**. In making the **composite**, the monomer soln. is dropped on the base material and the redox polymn. is completed on the support.

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:265379 CAPLUS  
 DN 126:252156  
 TI Water-shielding sheets for landfills  
 IN Hayashi, Masaru; Nakao, Akio; Matsumoto, Shuichi; Kamitoku, Mamoru  
 PA Toray Industries, Japan; Jiotetsukusu Kk; Izumi Kk  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09052323	A2	19970225	JP 1995-206178	19950811
	JP 3177818	B2	20010618		

AB Title sheets are prepd. by spreading high-**water-absorbing** resins on fabric sheet bases to a thickness of 10-3,000 g/m2, covering with fabric sheets, needle-punching the **composites**, and laminating the **composites** with resin sheets. A needle-punched **composite** was prepd. from acrylic acid **polymer particles** and 2 **polyester** nonwoven cloths and laminated with a **polyethylene** sheet to form a laminate with good **water**-shielding ability and swelling resistance.

=> d his

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 L8 396192 S WOOD PULP OR RAYON OR COTTON OR CELLULOSE  
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 L10 2 S L2 AND L4 AND L6 AND L7 AND L8

=> d l10 1-2 bib,abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS  
 AN 2001:569497 CAPLUS  
 DN 135:157720  
 TI Biodegradable highly water-absorbable composites containing  
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 and their use for sanitary products  
 IN Irizato, Yoshihiro; Higuchi, Chojiro; Ishitoku, Takeshi; Suzuki, Osamu  
 PA Mitsui Chemicals Inc., Japan; Nippon Kyushutai Gijutsu Kenkyusho K. K.  
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 LA Japanese

FAN.CNT 1

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L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:302906 CAPLUS  
 DN 126:278275  
 TI **Water-absorbing composite** material and its manufacture  
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 PA Mitsubishi Chem Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

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PRAI	JP 1995-151509		19950619		
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=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

84.77

84.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.72

-3.72

STN INTERNATIONAL LOGOFF AT 13:50:31 ON 19 SEP 2002